



CYCLONES

Applications

- Wood dust
- Grain & Feed
- Agricultural products
- Leather
- Rubber
- Pharmaceuticals
- Polymer & Plastics
- Sugar
- Metal grindings
- Textiles
- Fly ash
- Chemicals
- Minerals
- Asphalt
- Pulp & Paper

Cyclone separators with body diameters 104" and smaller are shipped in one piece, larger sizes are shipped knocked down with flanged bodies and cones. Standard and custom A-B cyclone separators are shipped in a timely manner based on availability of materials. Computer aided design and manufacturing cuts production time and ensures accuracy for a fast turnaround time from date of order.

After installation the three cyclones and air-locs serve as an integral part of a woodwaste management system. A Koger dual drive live bottom metering bin provides a variable uniform feed rate of up to five tons per hour of dry sawdust and shavings to an 1100' high pressure pneumatic conveying system.

Three size 20" - 80" diameter type A-B cyclones, 2" - 20" diameter and 1" - 16" diameter Koger rubber tipped air-locs before shipment to the job site.



Options

- Length and degree of cone can vary
- Pressure relief vents
- Steel supports, optional service platforms and ladders
- Air outlet cap
- Custom construction based on specifications of size and materials including galvanized, abrasive resistant, stainless steels, and hot rolled plate
- Inlet transitions
- Multiple inlets with automatic backdraft dampers
- Round or rectangular inlets
- Cone hopper to match air-loc or other equipment
- Cone access doors
- Bolt-in wear plates



Photo shows removal of outdated cyclone. The new system was in full operation when photo was taken.

Photo (right) shows a size 42 - 168" diameter type A-B pre-cleaner cyclone during installation. The cyclone operates under negative pressure and receives 12,000 pounds of dry wood dust and chips per hour. A size 41 Koger AMCA licensed fan delivers 45,760 CFM to the final filter.

Pricing

All type A-B cyclone separators are priced per customer's specifications.



- Standard construction of the Koger A-B cyclone is welded, bolted and flanged 12 gauge or heavier mild steel in inlet diameters from 12" - 48". The A-B cyclone separator is designed and constructed to minimize the abrasive action it receives as it collects and separates system particulate.
- When used as a pre-cleaner, the A-B cyclone separator reduces the load for the final filter, and when paired with the final filter, it performs at maximum efficiency. The A-B cyclone separator operates at 100% efficiency when used in closed loop systems by eliminating emissions to atmosphere.
- The unique bolted construction allows the A-B cyclone separator inlet to be interchangeable from clockwise to counterclockwise rotation. The bolt-on top is reinforced by gussets with lifting eyes.
- Cyclone separators constructed of hot rolled plate are cleaned, primed and painted with customer's choice of standard colors of paint.



Photos show installation of :

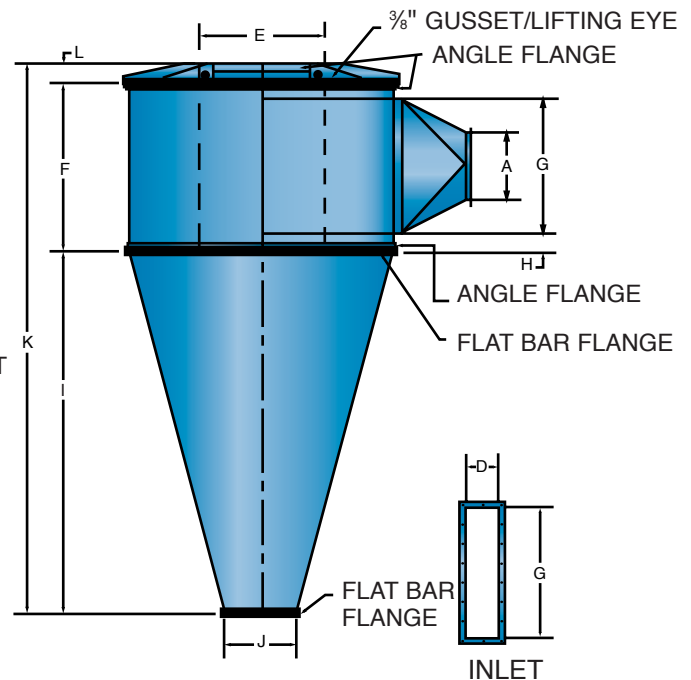
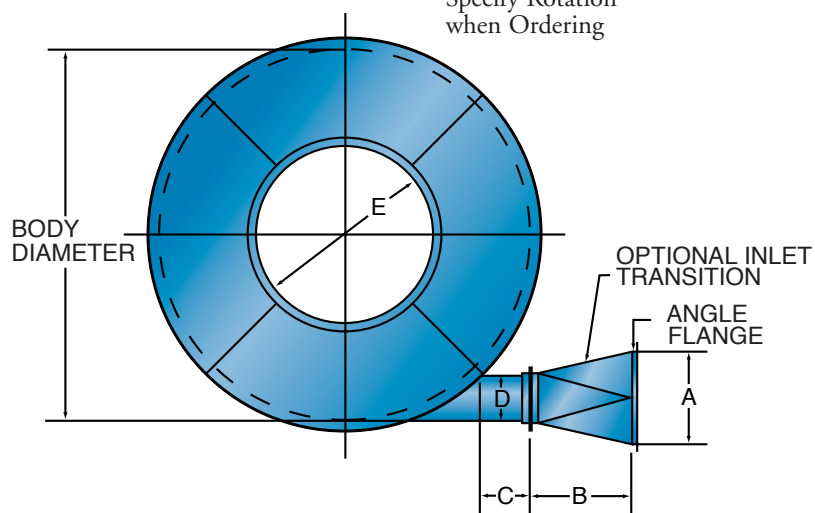
- 2-size 24" - 96" diameter type A-B cyclones
- 2-size 20" Koger rubber tipped air-locs
- 2-Koger dual drive live bottom bins each handling 3 to 4 tons per hour of dry wood shavings and sawdust
- 2-high pressure pneumatic conveying systems (though installation is shown in progress, after completion, the systems convey a distance of 1500' to a truck loading facility).



Standard A-B Cyclone

Top View - Clockwise
Rotation Shown
Counter - Clockwise
Rotation also Available

Specify Rotation
when Ordering



Certified drawings are available upon receipt of purchase order

Standard A-B Cyclone Separators

A Inlet Dia.	Capacity CFM@2"SP	Body Diameter	B	C	D	E	F	G	H	I	J	K	L
12	3150	48	18	12	6	22	30	24	3	45	24	80	5
14	4275	56	18	12	7	26	35	28	3.5	60	24	100 1/4	5 1/4
16	5600	64	18	12	8	30	40	32	4	75	24	120 1/2	5 1/2
18	7000	72	24	12	9	34	45	36	4.5	90	24	140 3/4	5 3/4
20	9150	80	24	12	10	38	50	40	5	105	24	161	6
22	11175	88	24	12	11	42	55	44	5.5	120	24	181 1/4	6 1/4
24	13390	96	30	12	12	46	60	48	6	135	24	201 1/2	6 1/2
26	15810	104	30	12	13	50	65	52	6.5	150	24	221 3/4	6 3/4
28	18450	112	30	12	14	54	70	56	7	164	24	241	7
30	21290	120	30	12	15	58	75	60	7.5	179	24	261 1/4	7 1/4
32	24320	128	36	12	16	62	80	64	8	194	24	281 1/2	7 1/2
34	27550	136	36	12	17	66	85	68	8.5	209	24	301 3/4	7 3/4
36	31000	144	36	12	18	70	90	72	9	224	24	322	8
38	34650	152	36	12	19	74	95	76	9.5	239	24	342 1/4	8 1/4
40	38450	160	36	12	20	78	100	80	10	254	24	342 1/2	8 1/2
42	42540	168	42	12	21	82	105	84	10.5	269	24	382 3/4	8 3/4
44	46800	176	42	12	22	86	110	88	11	283	24	402	9
46	51250	184	42	12	23	90	115	92	11.5	298	24	422 1/4	9 1/4
48	55290	192	42	12	24	94	120	96	12	313	24	442 1/2	9 1/2

- All dimensions in inches
- Weight is calculated based on size, type and thickness of material
- CFM (cubic feet per minute) @ 2" water gauge static pressure